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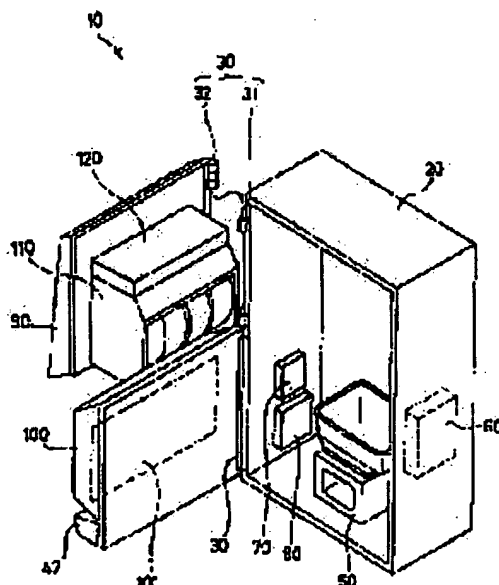
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(54) SLOT MACHINE

(57)Abstract:

PROBLEM TO BE SOLVED: To speedily and easily exchange an old type machine to the new one by constituting a hinge device so as to be mutually separated into a main body side hinge part and a front door side hinge part and attaching a reel instrument and a main substrate onto a front door.

SOLUTION: A front door is composed of an upper door 90 with display window attached with a hinge device 30 to one upper side of a main body box 20 so as to be opened/closed and a lower door 100 with an ornament panel 101 attached with the hinge device 30 to the lower side of that main body box. A reel instrument 110 and a main substrate 120 are attached to the rear face of the upper door 90. A medal discharge tray 47 is attached to the lower door 100. The hinge device 30 is composed of a main body side hinge part 31 attached to the main body box 20 and a front door side hinge part 32, which is attached to the upper and lower doors 90 and 100, so as to be mutually separated. When exchanging an old type machine to the new one, it is enough only to detach the old upper door 90, to exchange it with the new upper door 90 and to perform required wiring. Concerning the lower door 100, the ornament panel 101 is exchanged or the lower door 100 is exchanged as a whole.



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CLAIMS

[Claim(s)]

[Claim 1] It has a body box in the air and the front door attached in the 1 side of this body box possible [closing motion] through hinge equipment. Between said body boxes and said front doors The reel equipment which attends the display window prepared in said front door, and the medal exhaust which discharges a medal to a game person based on the game result of this reel equipment, In the slot machine which arranges the power unit which supplies a power source to the main substrate which controls said reel equipment and the medal exhaust, and said reel equipment, the medal exhaust and the main substrate, and the concentration terminal assembly which has an external output terminal The above-mentioned hinge equipment is a slot machine which is as disengageable as the body box side hinge region attached in said body box, and this body box side hinge region, consists of front-door side hinge regions attached in said front door, and is characterized by having attached reel equipment and the main substrate in said front door.

[Claim 2] The slot machine according to claim 1 characterized by having attached the medal exhaust, the power unit, and the concentration terminal assembly in a body box.

[Claim 3] The up door which a front door is attached in the 1 side bottom of a body box possible [closing motion] through hinge equipment, and has a display window, Besides it is arranged at the section door bottom, is attached in the 1 side bottom of a body box possible [closing motion] through hinge equipment, and consists of lower doors which have an exchangeable ornament panel. At an up door The slot machine according to claim 1 or 2 characterized by having attached reel equipment and the main substrate.

[Claim 4] The slot machine according to claim 1 characterized by having attached the medal exhaust, the power unit, and the concentration terminal assembly in a front door.

[Claim 5] A slot machine given in any 1 term of claims 1-4 characterized by having attached the main substrate in reel equipment.

[Claim 6] A slot machine given in any 1 term of claims 1-5 characterized by having attached the main substrate in the top face of reel equipment.

[Claim 7] The slot machine according to claim 4 characterized by having attached the main substrate in the top face of reel equipment, and having attached the power unit in the side face of reel equipment.

[Claim 8] The slot machine according to claim 4 characterized by having attached the main substrate in the top face of reel equipment, and having attached the concentration terminal assembly in the side face of reel equipment.

[Claim 9] The slot machine according to claim 4 characterized by having attached the main substrate in the top face of reel equipment, having attached the power unit in one side face of reel equipment, and having attached the concentration terminal assembly in the side face of another side of reel equipment.

[Claim 10] A slot machine given in any 1 term of claims 1-3 characterized by having attached the junction substrate for connection of a card unit in a body box.

[Claim 11] The slot machine according to claim 4 characterized by having attached the junction substrate for connection of a card unit in a front door.

[Claim 12] The slot machine according to claim 11 characterized by having attached the main substrate in the top face of reel equipment, having attached the power unit in one side face of reel equipment, and having attached the junction substrate in the side face of another side of reel equipment.

[Claim 13] The slot machine according to claim 11 characterized by having attached the main substrate in the top face of reel equipment, having attached the power unit in one side face of reel equipment, and having attached the concentration terminal assembly and the junction substrate in the side face of another side of reel equipment.

[Claim 14] A body box is a slot machine according to claim 4 characterized by being a wooden flask for pachinko.

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DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[Field of the Invention] This invention enables it to perform old and new model exchange easily about a slot machine.

[0002]

[Description of the Prior Art] Conventionally, as this kind of a slot machine, what attached reel equipment in the front door removable is known (for example, JP,6-23134,A). Moreover, what attached the cheek middle flask possible [closing motion] between the body box and the front door, and attached reel equipment in this cheek middle flask is known (for example, JP,1-37984,A).

[0003] Furthermore, what attached the saucer in the front-door bottom removable is known (for example, JP,3-57473,A).

[0004]

[Problem(s) to be Solved by the Invention] However, on the above-mentioned conventional slot machine, there was a common trouble that old and new model exchange was troublesome. That is, if a slot machine carries out fixed period progress, it will be changed to a new model.

[0005] At this time, the old model was removed and the new model was again attached in the removed tooth space. The above-mentioned old and new model exchange was troublesome, and had required trouble. For this reason, exchange of an old and new model took time amount, business hours were shortened for exchange of a model, or it was forced the activity of Nighttime, and became things, and a great effort and costs had started.

[0006] Moreover, since the new and old model was exchanged the whole round head, many those conveyance costs and inventory-carrying costs had also started. Furthermore, when the old model is discarded and a new model is newly manufactured, there is much futility of a resource.

(Claim 1) The place which invention according to claim 1 is made there in view of the trouble which the above-mentioned Prior art has, and is made into the purpose is in the following two points.

[0007] Invention according to claim 1 only exchanges front doors, and enables it to perform old and new model exchange to the 1st quickly and simple. Since invention according to claim 1 requires only exchange of a front door, it enables it to perform recovery of the old model, storage, and abandonment to the 2nd simple at manufacture of a new model, storage and conveyance, and a list as compared with the case where new and the old model are exchanged as a whole.

(Claim 2) In addition to the purpose of the above-mentioned invention according to claim 1, invention according to claim 2 aims at the following point.

[0008] That is, invention according to claim 2 enables it to distribute a resource reusable to a body box side efficiently.

(Claim 3) In addition to the purpose of the above-mentioned invention according to claim 1 or 2, invention according to claim 3 aims at the following two points.

[0009] Can also be invention [to it] one exchange and since invention according to claim 3 is making the front door the 1st comparatively up and down for 2 minutes, it enables it to perform recovery of the

old front door, storage, and abandonment to it simple at manufacture of a new front door, storage and conveyance, and a list as compared with the case where front doors are exchanged as a whole. Invention according to claim 3 enables it to distribute efficiently a resource reusable to an up-and-down front door to the 2nd by dividing a front door into two up and down.

(Claim 4) In addition to the purpose of the above-mentioned invention according to claim 1, invention according to claim 4 aims at the following two points.

[0010] Since invention according to claim 4 has attached various equipments in the front door, it enables it to attain facilitation of the structure of a body box to the 1st. Since invention according to claim 4 can attach various equipments in a front door and can wire it beforehand, the laborsaving also of the activity of wiring in a site etc. is possible for the 2nd, and it enables it to perform exchange of an old and new model to it still more quickly and simple.

(Claim 5) In addition to the purpose of invention of a publication, invention according to claim 5 aims at the following two points in the any 1 above-mentioned term of claims 1-4.

[0011] Invention according to claim 5 enables it to secure the attachment tooth space of the main substrate easily to the 1st. Invention according to claim 5 enables it to improve the assembly nature of reel equipment and the main substrate to the 2nd.

(Claim 6) In addition to the purpose of invention of a publication, invention according to claim 6 aims at the following two points in the any 1 above-mentioned term of claims 1-5.

[0012] That is, invention according to claim 6 enables it to utilize the upper part tooth space of reel equipment effectively.

(Claim 7) In addition to the purpose of the above-mentioned invention according to claim 4, invention according to claim 7 aims at the following two points.

[0013] Invention according to claim 7 enables it to secure the attachment tooth space of the main substrate and a power unit easily to the 1st. Invention according to claim 7 enables it to improve the assembly nature of reel equipment, the main substrate, and a power unit to the 2nd.

(Claim 8) In addition to the purpose of the above-mentioned invention according to claim 4, invention according to claim 8 aims at the following two points.

[0014] Invention according to claim 8 enables it to secure the attachment tooth space of the main substrate and a concentration terminal assembly easily to the 1st. Invention according to claim 8 enables it to improve the assembly nature of reel equipment, the main substrate, and a concentration terminal assembly to the 2nd.

(Claim 9) In addition to the purpose of the above-mentioned invention according to claim 4, invention according to claim 9 aims at the following two points.

[0015] Invention according to claim 9 enables it to secure the attachment tooth space of the main substrate, a power unit, and a concentration terminal assembly easily to the 1st. Invention according to claim 9 enables it to improve the assembly nature of reel equipment, the main substrate, a power unit, and a concentration terminal assembly to the 2nd.

(Claim 10) In addition to the purpose of invention of a publication, invention according to claim 10 aims at the following point in the any 1 above-mentioned term of claims 1-3.

[0016] That is, invention according to claim 10 enables it to aim at reuse of a junction substrate by attaching a junction substrate in a body box side.

(Claim 11) In addition to the purpose of the above-mentioned invention according to claim 4, invention according to claim 11 aims at the following two points.

[0017] Invention according to claim 11 enables it to attain facilitation of the structure of a body box by attaching a junction substrate to the 1st at a front-door side. Since invention according to claim 11 can attach a junction substrate in a front door and can wire it beforehand, the laborsaving also of the activity of wiring in a site etc. is possible for the 2nd, and it enables it to perform exchange of an old and new model to it still more quickly and simple.

(Claim 12) In addition to the purpose of the above-mentioned invention according to claim 11, invention according to claim 12 aims at the following two points.

[0018] Invention according to claim 12 enables it to secure the attachment tooth space of the main

substrate and a junction substrate easily to the 1st. Invention according to claim 12 enables it to improve the assembly nature of reel equipment, the main substrate, and a junction substrate to the 2nd.

(Claim 13) In addition to the purpose of the above-mentioned invention according to claim 11, invention according to claim 13 aims at the following two points.

[0019] Invention according to claim 13 enables it to secure the attachment tooth space of the main substrate, a power unit, a concentration terminal assembly, and a junction substrate easily to the 1st.

Invention according to claim 12 enables it to improve the assembly nature of reel equipment, the main substrate, a power unit, a concentration terminal assembly, and a junction substrate to the 2nd.

(Claim 14) In addition to the purpose of the above-mentioned invention according to claim 4, invention according to claim 14 aims at the following point.

[0020] That is, invention according to claim 14 enables it to attach the front door for slot machines in the wooden flask for pachinko.

[0021]

[Means for Solving the Problem] Each invention indicated by each claim, respectively is made in order to attain each above-mentioned purpose, and it explains the focus of each invention below using the gestalt of implementation of invention shown in the drawing.

(Claim 1) Invention according to claim 1 is characterized by the following two points.

[0022] To the 1st, hinge equipment (30) is as disengageable as the body box side hinge region (31) attached in a body box (20) as shown at drawing 1, and this body box side hinge region (31), and front-door side hinge regions (32) attached at a front door (40) are consisted of. As shown in drawing 1, reel equipment (110) and the main substrate (120) are attached [2nd] in the front door (40).

(Claim 2) In addition to the focus of the above-mentioned invention according to claim 1, invention according to claim 2 is characterized by the following point.

[0023] That is, as shown in a body box (20) at drawing 1, the medal exhaust (for example, hopper equipment 50), the power unit (60), and the concentration terminal assembly (70) are attached. In addition, the above-mentioned medal exhaust may attach the medal supply equipment of the medal supplied from the outside of not only hopper equipment (50) but a slot machine (10).

(Claim 3) In addition to the focus of the above-mentioned invention according to claim 1 or 2, invention according to claim 3 is characterized by the following two points.

[0024] A front door (40) For example, the up door which is attached in the 1 side bottom of a body box (20) possible [closing motion] through hinge equipment (30), and has a display window (41) as shown in drawing 1 (90), [1st] Besides it is arranged at the section door (90) bottom, is attached in the 1 side bottom of a body box (20) possible [closing motion] through hinge equipment (30), and consists of lower doors (100) which have an exchangeable ornament panel (101).

[0025] As shown in an up door (90) at drawing 1, reel equipment (110) and the main substrate (120) are attached in the 2nd.

(Claim 4) In addition to the focus of the above-mentioned invention according to claim 1, invention according to claim 4 is characterized by the following point.

[0026] That is, as shown in drawing 4 and 5, the medal exhaust (for example, hopper equipment 50), the power unit (60), and the concentration terminal assembly (70) are attached in the front door (40).

(Claim 5) In addition to the focus of invention of a publication, invention according to claim 5 is characterized by the following point at the any 1 above-mentioned term of claims 1-4.

[0027] That is, as shown in reel equipment (110) at drawing 1, the main substrate (120) is attached.

(Claim 6) In addition to the focus of invention of a publication, invention according to claim 6 is characterized by the following point at the any 1 above-mentioned term of claims 1-5.

[0028] That is, as shown in drawing 1, the main substrate (120) is attached in the top face of reel equipment (110).

(Claim 7) In addition to the focus of invention of a publication, invention according to claim 7 is characterized by the following two points at the any 1 above-mentioned term of claim 4.

[0029] As shown in drawing 4 and 5, the main substrate (120) is attached in the top face of reel equipment (110) the 1st. As shown in drawing 4 and 5, the power unit (60) is attached in the side face of

reel equipment (110) the 2nd.

(Claim 8) In addition to the focus of the above-mentioned invention according to claim 4, invention according to claim 8 is characterized by the following two points.

[0030] As shown in drawing 4 and 5, the main substrate (120) is attached in the top face of reel equipment (110) the 1st. As shown in drawing 4 and 5, the concentration terminal assembly (70) is attached in the side face of reel equipment (110) the 2nd.

(Claim 9) In addition to the focus of the above-mentioned invention according to claim 4, invention according to claim 9 is characterized by the following three points.

[0031] As shown in drawing 4 and 5, the main substrate (120) is attached in the top face of reel equipment (110) the 1st. As shown in drawing 4 and 5, the power unit (60) is attached in one side face of reel equipment (110) the 2nd. As shown in drawing 4 and 5, the concentration terminal assembly (70) is attached in the side face of another side of reel equipment (110) the 3rd.

[0032] (Claim 10) In addition to the focus of invention of a publication, invention according to claim 10 is characterized by the following point at the any 1 above-mentioned term of claims 1-3. That is, as shown in a body box (20) at drawing 1 , the junction substrate (80) for connection of a card unit (not shown) is attached.

[0033] (Claim 11) In addition to the focus of the above-mentioned invention according to claim 4, invention according to claim 11 is characterized by the following point. That is, as shown in drawing 4 and 5, the junction substrate (80) for connection of a card unit (not shown) is attached in the front door (40).

[0034] (Claim 12) In addition to the focus of the above-mentioned invention according to claim 11, invention according to claim 12 is characterized by the following three points. As shown in drawing 4 and 5, the main substrate (120) is attached in the top face of reel equipment (110) the 1st.

[0035] As shown in drawing 4 and 5, the power unit (60) is attached in one side face of reel equipment (110) the 2nd. As shown in drawing 4 and 5, the junction substrate (80) is attached in the side face of another side of reel equipment (110) the 3rd.

(Claim 13) In addition to the focus of the above-mentioned invention according to claim 11, invention according to claim 13 is characterized by the following three points.

[0036] As shown in drawing 4 and 5, the main substrate (120) is attached in the top face of reel equipment (110) the 1st. As shown in drawing 4 and 5, the power unit (60) is attached in one side face of reel equipment (110) the 2nd. As shown in drawing 4 and 5, the concentration terminal assembly (70) and the junction substrate (80) are attached in the side face of another side of reel equipment (110) the 3rd.

[0037] (Claim 14) In addition to the focus of the above-mentioned invention according to claim 4, invention according to claim 14 is characterized by the following point. That is, a body box (20) is a wooden flask for pachinko, as shown in drawing 4 .

[0038]

[Embodiment of the Invention]

(The 1st example) Drawing 1 and 2 show the 1st example as an example of the gestalt of operation of this invention. Drawing 1 shows the perspective view of a slot machine, and drawing 2 shows the front view of a slot machine, respectively.

(Slot machine) Ten show a slot machine among a Fig.

[0039] If the above-mentioned slot machine 10 is divided roughly as shown in drawing 1 , it is equipped with the body box 20 in the air and the front door 40 attached in the 1 side of this body box 20 possible [closing motion] through hinge equipment 30.

(Body box) The above-mentioned body box 20 has accomplished the cube type which the front face opened wide, as shown in drawing 1 .

[0040] And as shown in drawing 1 , hopper equipment 50, the power unit 60, the concentration terminal assembly 70, and the junction substrate 80 are attached in the interior of the hollow of the body box 20. The above-mentioned hopper equipment 50 discharges a medal to a game person based on a game result, and functions as the medal exhaust. And hopper equipment 50 is attached in the bottom of the

body box 20 as shown in drawing 1 .

[0041] In addition, the above-mentioned medal exhaust may attach the medal supply equipment of the medal supplied from the outside of not only hopper equipment 50 but the slot machine 10. Moreover, hopper equipment 50 may be indirectly fixed so that you may fix to the bottom of the body box 20 directly or it can pull out to the front through a rail etc. Said power unit 60 supplies a power source to the above-mentioned hopper equipment 50 grade. And the power unit 60 is attached in the right-hand side medial surface by the medial surface of the body box 20, and this example, as shown in drawing 1 .

[0042] In addition, the above-mentioned power unit 60 may be attached in other insides of not only the medial surface of the body box 20 but the body box 20. Although said concentration terminal assembly 70 is not illustrated, it has an external output terminal and is the thing of an output sake outside about information, such as system operating status of a slot machine 10. And the concentration terminal assembly 70 is attached in the left-hand side medial surface by the medial surface of the body box 20, and this example, as shown in drawing 1 .

[0043] In addition, the above-mentioned concentration terminal assembly 70 may be attached in other insides of not only the medial surface of the body box 20 but the body box 20. Although said junction substrate 80 is not illustrated, it is connected to a card unit through a harness etc. And the junction substrate 80 is attached in the concentration terminal assembly 70 bottom by the medial surface of the body box 20, and this example, as shown in drawing 1 .

[0044] In addition, the above-mentioned junction substrate 80 may be attached in other insides of not only the medial surface on the left-hand side of the body box 20 but the body box 20.

(Front door) As shown in drawing 1 and 2, a front door 40 is attached in the 1 side bottom of the body box 20 possible [closing motion] through hinge equipment 30, and consists of an up door 90 which has a display window 41, and a lower door 100 which is arranged at this up door 90 bottom, is attached in the 1 side bottom of the body box 20 possible [closing motion] through hinge equipment 30, and has the exchangeable ornament panel 101.

(Up door) As shown in drawing 1 , reel equipment 110 and the main substrate 120 are attached in the rear face of the above-mentioned up door 90.

[0045] Although the above-mentioned reel equipment 110 attends the display window 41 of the up door 90 and is not illustrated, it has three reels by which two or more kinds of emblems were displayed, and each reel rotates it according to an individual with the driving force of a motor. And reel equipment 110 is attached in the background of the display window 41 of the up door 90 as shown in drawing 1 . Said main substrate 120 performs control of the above-mentioned reel equipment 110 and hopper equipment 50. And the main substrate 120 is attached in the top face of reel equipment 110 as shown in drawing 1 .

[0046] In addition, although the main substrate 120 was attached in the top face of reel equipment 110, it may attach in other external surface of not only this but reel equipment 110, or you may attach in the rear face of the up door 90 directly. moreover, each reel of the start switch 43 for making the medal input port 42 for throwing a medal into the front face of the up door 90, as shown in drawing 2 , and reel equipment 110 drive, and reel equipment 110 -- three stop switches 44 which can stop according to an individual -- the injection switch 46 grade of ..., the circuit changing switch 45 of a credit, and a credit medal is arranged.

[0047] In addition, the various above-mentioned switches may be arranged not only at the up door 90 but at the lower door 100, or the up door 90 and the lower door 100 may be distributed, and it may be arranged.

(Lower door) As shown in drawing 1 and 2, the ornament panel 101 is attached in said lower door 100 exchangeable.

[0048] Moreover, as shown in drawing 1 and 2, the medal discharge pan 47 with which the medal discharged from hopper equipment 50 is saved is attached in the front face of the lower door 100.

(Hinge equipment) As shown in drawing 1 , said hinge equipment 30 is as disengageable as the body box side hinge region 31 attached in the body box 20, and this body box side hinge region 31, and consists of front-door side hinge regions 32 attached in the up-and-down door 90,100, respectively.

[0049] The above-mentioned body box side hinge region 31 accomplished the male, as shown in drawing 1, and the front-door side hinge region 32 has accomplished the female mold which fits each other into a male. And the body box 20 and the up-and-down door 90,100 are separable from the body box side hinge region 31 of a male by drawing out the front-door side hinge region 32 of a female mold up. In addition, it differs in the structure of the hinge equipment 30 of the up-and-down door 90,100, and the hinge equipment 30 of the lower door 100 is good also as structure which is not separated.

(Operation) In order to perform old and new model exchange, the old up door 90 is removed, it exchanges for the new up door 90, and required wiring is performed after that.

[0050] Moreover, the ornament panel 101 is exchanged about the lower door 100. In addition, not only the ornament panel 101 but the lower door 100 may be exchanged as a whole.

(The 2nd example) Drawing 3 shows the 2nd example as an example of the gestalt of operation of this invention, and this drawing shows the perspective view of a slot machine, respectively.

[0051] The description of **** 2 example is that it made the front door 40 one apparatus, as shown in drawing 3. the 1st example which was explained previously according to **** 2 example -- like -- exchange of the ornament panel 101 of the lower door 100 -- or exchange of not only the ornament panel 101 but the lower door 100 whole can be saved labor.

(The 3rd example) Drawing 4 and 5 show the 3rd example as an example of the gestalt of operation of this invention.

[0052] drawing 4 -- the perspective view of a slot machine, and drawing 5 -- some slot machines -- it is a top view. As shown in drawing 4 and 5, the description of **** 3 example is somewhat small as a body box 20 to the 1st as compared with the wooden flask of a slot machine, and is that it enabled it to use the wooden flask for thin pachinko.

[0053] In addition, as a body box 20, not only the wooden flask for pachinko but the wooden flask for slot machines may be used. As shown [2nd] in a front door 40 drawing 4 and 5, in addition to reel equipment 110 and the main substrate 120, it is in the point of having attached hopper equipment 50, the power unit 60, the concentration terminal assembly 70, and the junction substrate 80.

[0054] That is, to use the wooden flask for pachinko as a body box 20, it is necessary to attach in a front door 40 the various equipments used for a slot machine 10. Then, as shown in the left lateral of hopper equipment 50 drawing 4 and 5, the power unit 60 was attached and the concentration terminal assembly 70 and the junction substrate 80 are attached in the right lateral by the side of reverse. In addition, a power unit 60 and the main substrate 120 may be unified, and you may attach in the top face of hopper equipment 50, a side face, and a tooth back.

[0055] Moreover, the concentration terminal assembly 70 and the junction substrate 80 may be unified, and you may attach in the top face of hopper equipment 50, a side face, and a tooth back. Moreover, hopper equipment 50 is attached in the background of the medal discharge pan 47 of a front door 40 as shown in drawing 4. In addition, medal supply equipment may be attached not only as hopper equipment 50 but as the medal exhaust.

[0056] According to **** 3 example, it can consider as a slot machine by changing into a pachinko machine and attaching a front door 40 in the body box 20 as a wooden flask for the pachinko.

[0057]

[Effect of the Invention] Since this invention is constituted as mentioned above, it does so effectiveness which is indicated below.

(Claim 1) According to invention according to claim 1, the two following effectiveness is done so.

[0058] That is, according to invention according to claim 1, old and new model exchange can be performed quickly and simple only by exchanging front doors. According to invention according to claim 1, since only exchange of a front door is required, as compared with the case where new and the old model are exchanged as a whole, recovery of the old model, storage, and abandonment can be performed to the 2nd simple at manufacture of a new model, storage and conveyance, and a list.

(Claim 2) According to invention according to claim 2, in addition to the above-mentioned effect of the invention according to claim 1, the following effectiveness is done so.

[0059] That is, according to invention according to claim 2, a resource reusable to a body box side can

be distributed efficiently.

(Claim 3) According to invention according to claim 3, in addition to the above-mentioned effect of the invention according to claim 1 or 2, the two following effectiveness is done so.

[0060] Since the front door is comparatively made the 1st up and down for 2 minutes according to invention according to claim 3, one exchange is also possible to it and recovery of the old front door, storage, and abandonment can be performed to it simple at manufacture of a new front door, storage and conveyance, and a list as compared with the case where front doors are exchanged as a whole.

According to invention according to claim 3, a resource reusable to an up-and-down front door can be efficiently distributed to the 2nd by carrying out a front door comparatively up and down for 2 minutes.

(Claim 4) According to invention according to claim 4, in addition to the above-mentioned effect of the invention according to claim 1, the two following effectiveness is done so.

[0061] Since various equipments are attached in the front door the 1st according to invention according to claim 4, facilitation of the structure of a body box can be attained. Since according to invention according to claim 4 various equipments can be attached in a front door and it can be wired beforehand, the laborsaving also of the activity of wiring in a site etc. is possible for the 2nd, and exchange of an old and new model can be performed to it still more quickly and simple.

(Claim 5) According to invention according to claim 5, in addition to the effect of the invention of a publication, the two following effectiveness is done so in the any 1 above-mentioned term of claims 1-4.

[0062] According to invention according to claim 5, the attachment tooth space of the main substrate is easily securable for the 1st. According to invention according to claim 5, to the 2nd, the assembly nature of reel equipment and the main substrate is improvable.

(Claim 6) According to invention according to claim 6, in addition to the effect of the invention of a publication, the two following effectiveness is done so in the any 1 above-mentioned term of claims 1-5.

[0063] That is, according to invention according to claim 6, the upper part tooth space of reel equipment is effectively utilizable.

(Claim 7) According to invention according to claim 7, in addition to the above-mentioned effect of the invention according to claim 4, the two following effectiveness is done so.

[0064] According to invention according to claim 7, the attachment tooth space of the main substrate and a power unit is easily securable for the 1st. According to invention according to claim 7, to the 2nd, the assembly nature of reel equipment, the main substrate, and a power unit is improvable.

(Claim 8) According to invention according to claim 8, in addition to the above-mentioned effect of the invention according to claim 4, the two following effectiveness is done so.

[0065] According to invention according to claim 8, the attachment tooth space of the main substrate and a concentration terminal assembly is easily securable for the 1st. According to invention according to claim 8, to the 2nd, the assembly nature of reel equipment, the main substrate, and a concentration terminal assembly is improvable.

(Claim 9) According to invention according to claim 9, in addition to the above-mentioned effect of the invention according to claim 4, the two following effectiveness is done so.

[0066] It enables it to secure the attachment tooth space of the main substrate, a power unit, and a concentration terminal assembly easily to the 1st according to invention according to claim 9. According to invention according to claim 9, to the 2nd, the assembly nature of reel equipment, the main substrate, a power unit, and a concentration terminal assembly is improvable.

(Claim 10) According to invention according to claim 10, in addition to the effect of the invention of a publication, the following effectiveness is done so in the any 1 above-mentioned term of claims 1-3.

[0067] That is, according to invention according to claim 10, reuse of a junction substrate can be aimed at by attaching a junction substrate in a body box side.

(Claim 11) According to invention according to claim 11, in addition to the above-mentioned effect of the invention according to claim 4, the two following effectiveness is done so.

[0068] According to invention according to claim 11, to the 1st, facilitation of the structure of a body

box can be attained by attaching a junction substrate at a front-door side. Since according to invention according to claim 11 a junction substrate can be attached in a front door and it can be wired beforehand, the laborsaving also of the activity of wiring in a site etc. is possible for the 2nd, and exchange of an old and new model can be performed to it still more quickly and simple.

(Claim 12) According to invention according to claim 12, in addition to the above-mentioned effect of the invention according to claim 11, the two following effectiveness is done so.

[0069] According to invention according to claim 12, the attachment tooth space of the main substrate and a junction substrate is easily securable for the 1st. According to invention according to claim 12, to the 2nd, the assembly nature of reel equipment, the main substrate, and a junction substrate is improvable.

(Claim 13) According to invention according to claim 13, in addition to the above-mentioned effect of the invention according to claim 11, the two following effectiveness is done so.

[0070] According to invention according to claim 13, the attachment tooth space of the main substrate, a power unit, a concentration terminal assembly, and a junction substrate is easily securable for the 1st. According to invention according to claim 12, to the 2nd, the assembly nature of reel equipment, the main substrate, a power unit, a concentration terminal assembly, and a junction substrate is improvable.

(Claim 14) According to invention according to claim 14, in addition to the above-mentioned effect of the invention according to claim 4, the following effectiveness is done so.

[0071] That is, according to invention according to claim 14, the front door for slot machines can be attached in the wooden flask for pachinko.

[Translation done.]

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TECHNICAL PROBLEM

[Problem(s) to be Solved by the Invention] However, on the above-mentioned conventional slot machine, there was a common trouble that old and new model exchange was troublesome. That is, if a slot machine carries out fixed period progress, it will be changed to a new model.

[0005] At this time, the old model was removed and the new model was again attached in the removed tooth space. The above-mentioned old and new model exchange was troublesome, and had required trouble. For this reason, exchange of an old and new model took time amount, business hours were shortened for exchange of a model, or it was forced the activity of Nighttime, and became things, and a great effort and costs had started.

[0006] Moreover, since the new and old model was exchanged the whole round head, many those conveyance costs and inventory-carrying costs had also started. Furthermore, when the old model is discarded and a new model is newly manufactured, there is much futility of a resource.

(Claim 1) The place which invention according to claim 1 is made there in view of the trouble which the above-mentioned Prior art has, and is made into the purpose is in the following two points.

[0007] Invention according to claim 1 only exchanges front doors, and enables it to perform old and new model exchange to the 1st quickly and simple. Since invention according to claim 1 requires only exchange of a front door, it enables it to perform recovery of the old model, storage, and abandonment to the 2nd simple at manufacture of a new model, storage and conveyance, and a list as compared with the case where new and the old model are exchanged as a whole.

(Claim 2) In addition to the purpose of the above-mentioned invention according to claim 1, invention according to claim 2 aims at the following point.

[0008] That is, invention according to claim 2 enables it to distribute a resource reusable to a body box side efficiently.

(Claim 3) In addition to the purpose of the above-mentioned invention according to claim 1 or 2, invention according to claim 3 aims at the following two points.

[0009] Can also be invention [to it] one exchange and since invention according to claim 3 is making the front door the 1st comparatively up and down for 2 minutes, it enables it to perform recovery of the old front door, storage, and abandonment to it simple at manufacture of a new front door, storage and conveyance, and a list as compared with the case where front doors are exchanged as a whole. Invention according to claim 3 enables it to distribute efficiently a resource reusable to an up-and-down front door to the 2nd by dividing a front door into two up and down.

(Claim 4) In addition to the purpose of the above-mentioned invention according to claim 1, invention according to claim 4 aims at the following two points.

[0010] Since invention according to claim 4 has attached various equipments in the front door, it enables it to attain facilitation of the structure of a body box to the 1st. Since invention according to claim 4 can attach various equipments in a front door and can wire it beforehand, the laborsaving also of the activity of wiring in a site etc. is possible for the 2nd, and it enables it to perform exchange of an old and new model to it still more quickly and simple.

(Claim 5) In addition to the purpose of invention of a publication, invention according to claim 5 aims at

the following two points in the any 1 above-mentioned term of claims 1-4.

[0011] Invention according to claim 5 enables it to secure the attachment tooth space of the main substrate easily to the 1st. Invention according to claim 5 enables it to improve the assembly nature of reel equipment and the main substrate to the 2nd.

(Claim 6) In addition to the purpose of invention of a publication, invention according to claim 6 aims at the following two points in the any 1 above-mentioned term of claims 1-5.

[0012] That is, invention according to claim 6 enables it to utilize the upper part tooth space of reel equipment effectively.

(Claim 7) In addition to the purpose of the above-mentioned invention according to claim 4, invention according to claim 7 aims at the following two points.

[0013] Invention according to claim 7 enables it to secure the attachment tooth space of the main substrate and a power unit easily to the 1st. Invention according to claim 7 enables it to improve the assembly nature of reel equipment, the main substrate, and a power unit to the 2nd.

(Claim 8) In addition to the purpose of the above-mentioned invention according to claim 4, invention according to claim 8 aims at the following two points.

[0014] Invention according to claim 8 enables it to secure the attachment tooth space of the main substrate and a concentration terminal assembly easily to the 1st. Invention according to claim 8 enables it to improve the assembly nature of reel equipment, the main substrate, and a concentration terminal assembly to the 2nd.

(Claim 9) In addition to the purpose of the above-mentioned invention according to claim 4, invention according to claim 9 aims at the following two points.

[0015] Invention according to claim 9 enables it to secure the attachment tooth space of the main substrate, a power unit, and a concentration terminal assembly easily to the 1st. Invention according to claim 9 enables it to improve the assembly nature of reel equipment, the main substrate, a power unit, and a concentration terminal assembly to the 2nd.

(Claim 10) In addition to the purpose of invention of a publication, invention according to claim 10 aims at the following point in the any 1 above-mentioned term of claims 1-3.

[0016] That is, invention according to claim 10 enables it to aim at reuse of a junction substrate by attaching a junction substrate in a body box side.

(Claim 11) In addition to the purpose of the above-mentioned invention according to claim 4, invention according to claim 11 aims at the following two points.

[0017] Invention according to claim 11 enables it to attain facilitation of the structure of a body box by attaching a junction substrate to the 1st at a front-door side. Since invention according to claim 11 can attach a junction substrate in a front door and can wire it beforehand, the laborsaving also of the activity of wiring in a site etc. is possible for the 2nd, and it enables it to perform exchange of an old and new model to it still more quickly and simple.

(Claim 12) In addition to the purpose of the above-mentioned invention according to claim 11, invention according to claim 12 aims at the following two points.

[0018] Invention according to claim 12 enables it to secure the attachment tooth space of the main substrate and a junction substrate easily to the 1st. Invention according to claim 12 enables it to improve the assembly nature of reel equipment, the main substrate, and a junction substrate to the 2nd.

(Claim 13) In addition to the purpose of the above-mentioned invention according to claim 11, invention according to claim 13 aims at the following two points.

[0019] Invention according to claim 13 enables it to secure the attachment tooth space of the main substrate, a power unit, a concentration terminal assembly, and a junction substrate easily to the 1st. Invention according to claim 12 enables it to improve the assembly nature of reel equipment, the main substrate, a power unit, a concentration terminal assembly, and a junction substrate to the 2nd.

(Claim 14) In addition to the purpose of the above-mentioned invention according to claim 4, invention according to claim 14 aims at the following point.

[0020] That is, invention according to claim 14 enables it to attach the front door for slot machines in the wooden flask for pachinko.

[Translation done.]

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DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

[Drawing 1] It is the perspective view of a slot machine.

[Drawing 2] It is the front view of a slot machine.

[Drawing 3] The 2nd example is shown and it is the perspective view of a slot machine.

[Drawing 4] The 3rd example is shown and it is the perspective view of a slot machine.

[Drawing 5] a part of drawing 4 -- it is a top view.

[Description of Notations]

10 Slot Machine 20 Body Box

30 Hinge Equipment 31 Body Box Side Hinge Region

32 Front-Door Side Hinge Region 40 Front Door

41 Display Window 42 Medal Input Port

43 Start Switch 44 Stop Switch

45 Circuit Changing Switch 46 Injection Switch

47 Medal Discharge Pan 50 Hopper Equipment

60 Power Unit 70 Concentration Terminal Assembly

80 Junction Substrate 90 Up Door

100 Lower Door 101 Ornament Panel

110 Reel Equipment 120 Main Substrate

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EFFECT OF THE INVENTION

[Effect of the Invention] Since this invention is constituted as mentioned above, it does so effectiveness which is indicated below.

(Claim 1) According to invention according to claim 1, the two following effectiveness is done so.

[0058] That is, according to invention according to claim 1, old and new model exchange can be performed quickly and simple only by exchanging front doors. According to invention according to claim 1, since only exchange of a front door is required, as compared with the case where new and the old model are exchanged as a whole, recovery of the old model, storage, and abandonment can be performed to the 2nd simple at manufacture of a new model, storage and conveyance, and a list.

(Claim 2) According to invention according to claim 2, in addition to the above-mentioned effect of the invention according to claim 1, the following effectiveness is done so.

[0059] That is, according to invention according to claim 2, a resource reusable to a body box side can be distributed efficiently.

(Claim 3) According to invention according to claim 3, in addition to the above-mentioned effect of the invention according to claim 1 or 2, the two following effectiveness is done so.

[0060] Since the front door is comparatively made the 1st up and down for 2 minutes according to invention according to claim 3, one exchange is also possible to it and recovery of the old front door, storage, and abandonment can be performed to it simple at manufacture of a new front door, storage and conveyance, and a list as compared with the case where front doors are exchanged as a whole.

According to invention according to claim 3, a resource reusable to an up-and-down front door can be efficiently distributed to the 2nd by carrying out a front door comparatively up and down for 2 minutes.

(Claim 4) According to invention according to claim 4, in addition to the above-mentioned effect of the invention according to claim 1, the two following effectiveness is done so.

[0061] Since various equipments are attached in the front door the 1st according to invention according to claim 4, facilitation of the structure of a body box can be attained. Since according to invention according to claim 4 various equipments can be attached in a front door and it can be wired beforehand, the laborsaving also of the activity of wiring in a site etc. is possible for the 2nd, and exchange of an old and new model can be performed to it still more quickly and simple.

(Claim 5) According to invention according to claim 5, in addition to the effect of the invention of a publication, the two following effectiveness is done so in the any 1 above-mentioned term of claims 1-4.

[0062] According to invention according to claim 5, the attachment tooth space of the main substrate is easily securable for the 1st. According to invention according to claim 5, to the 2nd, the assembly nature of reel equipment and the main substrate is improvable.

(Claim 6) According to invention according to claim 6, in addition to the effect of the invention of a publication, the two following effectiveness is done so in the any 1 above-mentioned term of claims 1-5.

[0063] That is, according to invention according to claim 6, the upper part tooth space of reel equipment is effectively utilizable.

(Claim 7) According to invention according to claim 7, in addition to the above-mentioned effect of the invention according to claim 4, the two following effectiveness is done so.

[0064] According to invention according to claim 7, the attachment tooth space of the main substrate and a power unit is easily securable for the 1st. According to invention according to claim 7, to the 2nd, the assembly nature of reel equipment, the main substrate, and a power unit is improvable.

(Claim 8) According to invention according to claim 8, in addition to the above-mentioned effect of the invention according to claim 4, the two following effectiveness is done so.

[0065] According to invention according to claim 8, the attachment tooth space of the main substrate and a concentration terminal assembly is easily securable for the 1st. According to invention according to claim 8, to the 2nd, the assembly nature of reel equipment, the main substrate, and a concentration terminal assembly is improvable.

(Claim 9) According to invention according to claim 9, in addition to the above-mentioned effect of the invention according to claim 4, the two following effectiveness is done so.

[0066] It enables it to secure the attachment tooth space of the main substrate, a power unit, and a concentration terminal assembly easily to the 1st according to invention according to claim 9. According to invention according to claim 9, to the 2nd, the assembly nature of reel equipment, the main substrate, a power unit, and a concentration terminal assembly is improvable.

(Claim 10) According to invention according to claim 10, in addition to the effect of the invention of a publication, the following effectiveness is done so in the any 1 above-mentioned term of claims 1-3.

[0067] That is, according to invention according to claim 10, reuse of a junction substrate can be aimed at by attaching a junction substrate in a body box side.

(Claim 11) According to invention according to claim 11, in addition to the above-mentioned effect of the invention according to claim 4, the two following effectiveness is done so.

[0068] According to invention according to claim 11, to the 1st, facilitation of the structure of a body box can be attained by attaching a junction substrate at a front-door side. Since according to invention according to claim 11 a junction substrate can be attached in a front door and it can be wired beforehand, the laborsaving also of the activity of wiring in a site etc. is possible for the 2nd, and exchange of an old and new model can be performed to it still more quickly and simple.

(Claim 12) According to invention according to claim 12, in addition to the above-mentioned effect of the invention according to claim 11, the two following effectiveness is done so.

[0069] According to invention according to claim 12, the attachment tooth space of the main substrate and a junction substrate is easily securable for the 1st. According to invention according to claim 12, to the 2nd, the assembly nature of reel equipment, the main substrate, and a junction substrate is improvable.

(Claim 13) According to invention according to claim 13, in addition to the above-mentioned effect of the invention according to claim 11, the two following effectiveness is done so.

[0070] According to invention according to claim 13, the attachment tooth space of the main substrate, a power unit, a concentration terminal assembly, and a junction substrate is easily securable for the 1st. According to invention according to claim 12, to the 2nd, the assembly nature of reel equipment, the main substrate, a power unit, a concentration terminal assembly, and a junction substrate is improvable.

(Claim 14) According to invention according to claim 14, in addition to the above-mentioned effect of the invention according to claim 4, the following effectiveness is done so.

[0071] That is, according to invention according to claim 14, the front door for slot machines can be attached in the wooden flask for pachinko.

[Translation done.]

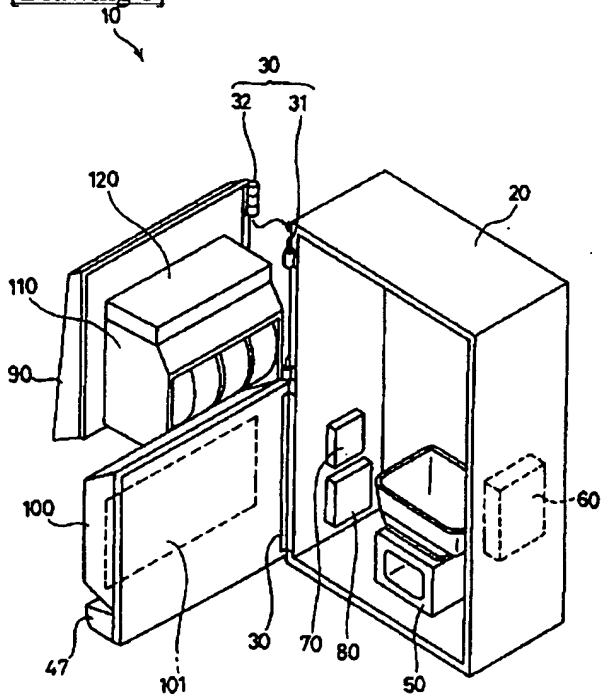
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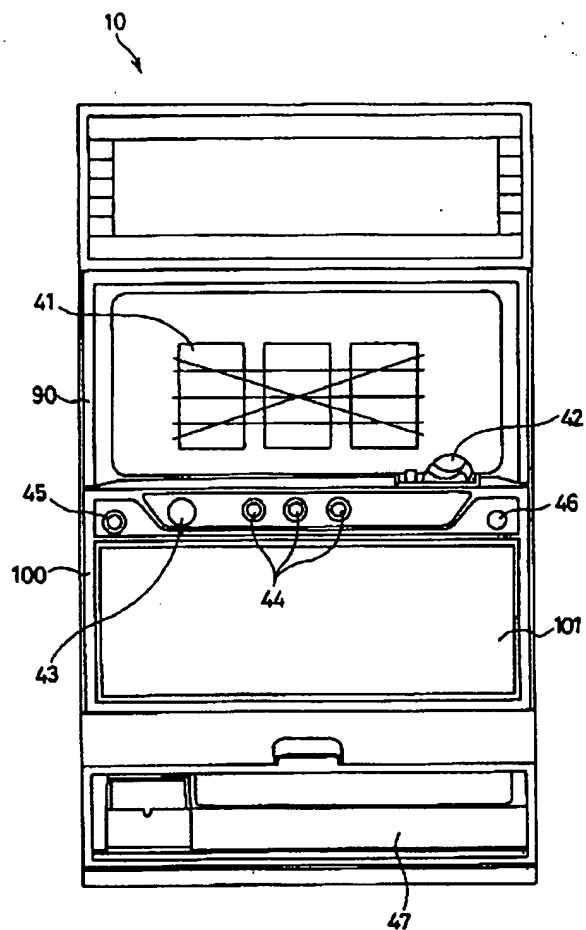
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DRAWINGS

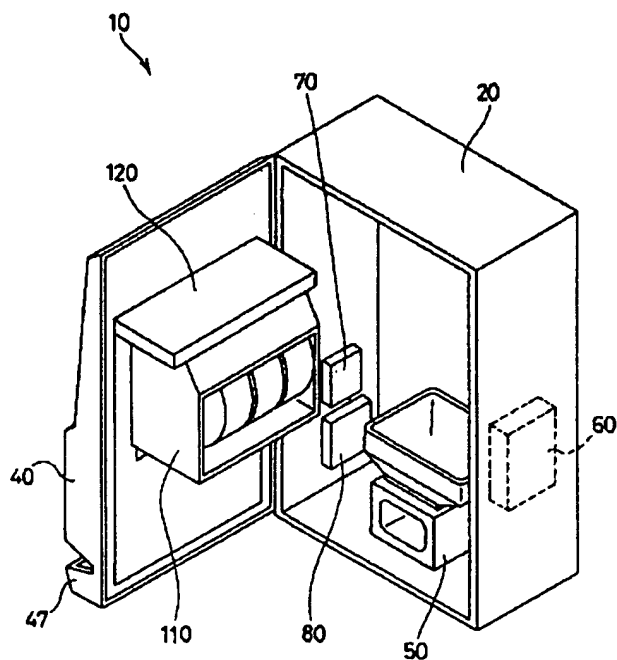
[Drawing 1]



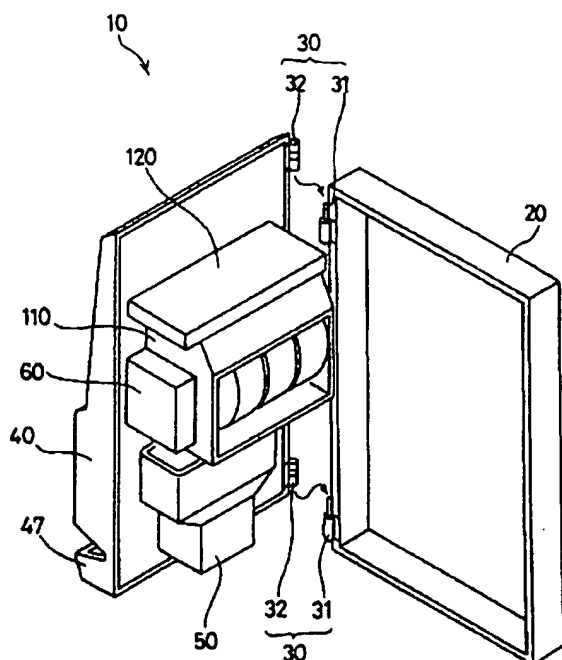
[Drawing 2]



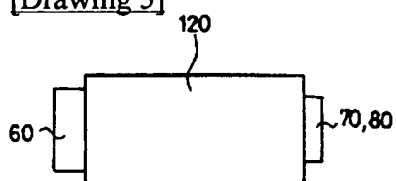
[Drawing 3]



[Drawing 4]



[Drawing 5]



[Translation done.]

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MEANS

[Means for Solving the Problem] Each invention indicated by each claim, respectively is made in order to attain each above-mentioned purpose, and it explains the focus of each invention below using the gestalt of implementation of invention shown in the drawing.

(Claim 1) Invention according to claim 1 is characterized by the following two points.

[0022] To the 1st, hinge equipment (30) is as disengageable as the body box side hinge region (31) attached in a body box (20) as shown at drawing 1, and this body box side hinge region (31), and front-door side hinge regions (32) attached at a front door (40) are consisted of. As shown in drawing 1, reel equipment (110) and the main substrate (120) are attached [2nd] in the front door (40).

(Claim 2) In addition to the focus of the above-mentioned invention according to claim 1, invention according to claim 2 is characterized by the following point.

[0023] That is, as shown in a body box (20) at drawing 1, the medal exhaust (for example, hopper equipment 50), the power unit (60), and the concentration terminal assembly (70) are attached. In addition, the above-mentioned medal exhaust may attach the medal supply equipment of the medal supplied from the outside of not only hopper equipment (50) but a slot machine (10).

(Claim 3) In addition to the focus of the above-mentioned invention according to claim 1 or 2, invention according to claim 3 is characterized by the following two points.

[0024] A front door (40) For example, the up door which is attached in the 1 side bottom of a body box (20) possible [closing motion] through hinge equipment (30), and has a display window (41) as shown in drawing 1 (90), [1st] Besides it is arranged at the section door (90) bottom, is attached in the 1 side bottom of a body box (20) possible [closing motion] through hinge equipment (30), and consists of lower doors (100) which have an exchangeable ornament panel (101).

[0025] As shown in an up door (90) at drawing 1, reel equipment (110) and the main substrate (120) are attached in the 2nd.

(Claim 4) In addition to the focus of the above-mentioned invention according to claim 1, invention according to claim 4 is characterized by the following point.

[0026] That is, as shown in drawing 4 and 5, the medal exhaust (for example, hopper equipment 50), the power unit (60), and the concentration terminal assembly (70) are attached in the front door (40).

(Claim 5) In addition to the focus of invention of a publication, invention according to claim 5 is characterized by the following point at the any 1 above-mentioned term of claims 1-4.

[0027] That is, as shown in reel equipment (110) at drawing 1, the main substrate (120) is attached.

(Claim 6) In addition to the focus of invention of a publication, invention according to claim 6 is characterized by the following point at the any 1 above-mentioned term of claims 1-5.

[0028] That is, as shown in drawing 1, the main substrate (120) is attached in the top face of reel equipment (110).

(Claim 7) In addition to the focus of invention of a publication, invention according to claim 7 is characterized by the following two points at the any 1 above-mentioned term of claim 4.

[0029] As shown in drawing 4 and 5, the main substrate (120) is attached in the top face of reel equipment (110) the 1st. As shown in drawing 4 and 5, the power unit (60) is attached in the side face of

reel equipment (110) the 2nd.

(Claim 8) In addition to the focus of the above-mentioned invention according to claim 4, invention according to claim 8 is characterized by the following two points.

[0030] As shown in drawing 4 and 5, the main substrate (120) is attached in the top face of reel equipment (110) the 1st. As shown in drawing 4 and 5, the concentration terminal assembly (70) is attached in the side face of reel equipment (110) the 2nd.

(Claim 9) In addition to the focus of the above-mentioned invention according to claim 4, invention according to claim 9 is characterized by the following three points.

[0031] As shown in drawing 4 and 5, the main substrate (120) is attached in the top face of reel equipment (110) the 1st. As shown in drawing 4 and 5, the power unit (60) is attached in one side face of reel equipment (110) the 2nd. As shown in drawing 4 and 5, the concentration terminal assembly (70) is attached in the side face of another side of reel equipment (110) the 3rd.

[0032] (Claim 10) In addition to the focus of invention of a publication, invention according to claim 10 is characterized by the following point at the any 1 above-mentioned term of claims 1-3. That is, as shown in a body box (20) at drawing 1, the junction substrate (80) for connection of a card unit (not shown) is attached.

[0033] (Claim 11) In addition to the focus of the above-mentioned invention according to claim 4, invention according to claim 11 is characterized by the following point. That is, as shown in drawing 4 and 5, the junction substrate (80) for connection of a card unit (not shown) is attached in the front door (40).

[0034] (Claim 12) In addition to the focus of the above-mentioned invention according to claim 11, invention according to claim 12 is characterized by the following three points. As shown in drawing 4 and 5, the main substrate (120) is attached in the top face of reel equipment (110) the 1st.

[0035] As shown in drawing 4 and 5, the power unit (60) is attached in one side face of reel equipment (110) the 2nd. As shown in drawing 4 and 5, the junction substrate (80) is attached in the side face of another side of reel equipment (110) the 3rd.

(Claim 13) In addition to the focus of the above-mentioned invention according to claim 11, invention according to claim 13 is characterized by the following three points.

[0036] As shown in drawing 4 and 5, the main substrate (120) is attached in the top face of reel equipment (110) the 1st. As shown in drawing 4 and 5, the power unit (60) is attached in one side face of reel equipment (110) the 2nd. As shown in drawing 4 and 5, the concentration terminal assembly (70) and the junction substrate (80) are attached in the side face of another side of reel equipment (110) the 3rd.

[0037] (Claim 14) In addition to the focus of the above-mentioned invention according to claim 4, invention according to claim 14 is characterized by the following point. That is, a body box (20) is a wooden flask for pachinko, as shown in drawing 4.

[0038]

[Embodiment of the Invention]

[Translation done.]

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PRIOR ART

[Description of the Prior Art] Conventionally, as this kind of a slot machine, what attached reel equipment in the front door removable is known (for example, JP,6-23134,A). Moreover, what attached the cheek middle flask possible [closing motion] between the body box and the front door, and attached reel equipment in this cheek middle flask is known (for example, JP,1-37984,A).
[0003] Furthermore, what attached the saucer in the front-door bottom removable is known (for example, JP,3-57473,A).

[Translation done.]